

## N O T I C E

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CR-142522

Geologic Application of  
Thermal-inertia Mapping from Satellite

Type II Progress Report  
September - November 1979

(E80-10050) GEOLOGIC APPLICATION OF  
THERMAL-INERTIA MAPPING FROM SATELLITE  
Progress Report, Sep. - Nov. 1979  
(Geological Survey) 20 p HC A02/MF A01

N80-16398

Unclas  
CSCL 08B G3/43 00050

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**A. Problems**

None

**B. Accomplishments**

The two USGS aircraft scenes which were processed to thermal-inertia images (Progress Reports March - May 1979 and June - August 1979) were concatenated into one image. A contrast stretch was applied to the resulting image to emphasize the thermal property differences. This product is now available to be compared with a thermal-inertia map produced from HCMM data when appropriate data are available. (See the data utility section.)

During this last reporting period, twelve CCT's were received. Each of the data sets have been reformatted to be compatible with the USGS computer. One 36 hour day/night pair of the Cabeza Prieta area appears to have stable meteorological conditions between acquisition times. The nighttime data is presently being registered to the daytime. The list of HCMM products received to date has been updated since the last reporting period.

**C. Significant Results**

None

**D. Publications and Presentations**

Ken Watson submitted an abstract for the International Geological Congress titled "Regional geologic analysis from HCMM thermal satellite data". "Ground support data July 10 to July 29, 1979, for the HCMM thermal satellite over the Powder River Basin, Wyoming" is in review to be published as a USGS open-file report.

**E. Recommendations**

None

**F. Funds Expended**

Total expenditures to date: \$81,838

**G. Data Utility**

For the Powder River Basin we have received two day/night pairs. The 30 July pair looks anomalous; GOES and NOAA-5 data for this same day confirms the presence of a thin cloud layer over the area. The 5 September data consists of a clear nighttime image and 50% cloud-covered daytime images. Neither of these two data sets are particularly acceptable. If a better day/night pair is not found, one of the above mentioned data sets will be used for the final analysis.

For the Cabeza Prieta site, three day/night pairs have been received: one 84 hour pair, one 60 hour pair, and one 36 hour pair. The 36 hour pair appears to be acceptable.

SITE: Wyoming - Powder River Basin

HCMH DATA PRODUCTS

DATE: May/June 1978

Date		Data		Product		% Site Covered					% Site Cloud Covered					DN Range		Ratings		Pairs?		Scene ID	Remarks			
Day	Vis	Day	Nite	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10	30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
5/11	x		x	x	x	x					x					x				x			x		0015-20220-1	RMS 277
				x	x	x					x					x				x			x		0015-20220-2	RMS 278
6/8	x		x	x	x	x										x				x			x		0043-20450-1	NW section
				x	x	x										x				x			x		0043-20450-2	-do-
	x			x	x	x										x							x		0043-20430-1	SW section
		x		x	x	x										x							x		0043-20430-2	-do-
			x	x	x	x																	x		0043-09480-3	NW tip
			x	x	x	x																	x		0043-09490-3	SW tip, good image of Salt Lake
6/11	x		x	x	x	x										x				x			x		0046-20020-1	NE section
				x	x	x										x				x			x		0046-20020-1	-do-
6/12	x		x	x	x	x										x				x			x		0047-20190-1	SE corner
				x	x	x										x				x			x		0047-20190-2	-do-
	x			x	x	x										x				x			x		0047-20200-1	Northern 75%
		x		x	x	x										x				x			x		0047-20200-2	-do-
6/17		x		x	x	x										x				x			x		0052-20120-2	SE tip
	x			x	x	x										x				x			x		0052-20130-1	SE section
				x	x	x										x				x			x		0052-20130-2	-do-
6/18	x		x	x	x	x										x				x					0053-20310-1	
				x	x	x										x				x					0053-20310-2	
6/19	x		x	x	x	x										x				x			x		0054-20500-1	
		x		x	x	x										x				x			x		0054-20500-2	
			x	x	x	x										x				x			x		0054-20480-2	
	x			x	x	x										x				x			x		0054-20480-1	Salt Lake good

SITE: Wyoming - Powder River Basin

## HCM DATA PRODUCTS

DATE: May/June 1978

Date	Data		Product		Z Site Covered				Cloud Covered				DN Range		Ratings				Paired?	Scene ID	Remarks				
	Day Vis	Day Ir	Nite IR	BW	Trans	CGI	<10	10	25	50	75	100	<10	30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
6/22	x			x	x	x	x						x				23	217	x			x		0057-20060-1	
		x		x	x	x	x						x				7	156	x			x		0057-20060-2	
			x	x	x	x	x							x			3	63	x			x		0057-02110-3	
			x	x	x	x	x										3	57	x			x		0057-03100-3	
	x			x	x	x	x								x		12	209	x					0057-20080-1	
		x		x	x	x									x		2	122	x					0057-20080-2	
6/28	x			x	x	x	x						x				20	199				x		0063-20170-1	Southern end
		x		x	x	x	x						x				3	153				x		0063-20170-2	-do-
	x			x	x	x	x							x			13	194				x		0063-20190-1	Northern half
		x		x	x	x	x							x			13	148				x		0063-20190-2	-do-
			x	x	x	x	x								x		10	66				x		0063-09220-3	
			x	x	x	x								x			2	61				x		0063-09230-3	
6/29			x	x	x	x									x		1	71				x		0064-09390-3	NW tip

REPRODUCTION OF THE  
ORIGINAL PAGE IS POOR

# SITE: Wyoming - Powder River Basin

DATE: July 1978

Date	Data	Product	% Site Covered	% Site Cloud Covered	DN Range	Ratings	Pairs:	Scene ID	Remarks
	Day Vis Night Ir	BW Trans CCT	<10 10 25 50 75 100	10- <10 30 60 90	Low High	Unsat Mar Sat	Yes No	AA Number	
7/2	x x x x	x x x x	x x x x	x x	7 133 15 168 15 171 21 135	x x x x	x x x x	0067-19540-2 0067-19540-1 0067-19540-1 0067-19540-2	NE corner -do-
7/8	x x	x x	x x	x x	17 202 3 149	x x	x x	0073-20050-1 0073-20050-2	SE corner -do-
7/9	x x x	x x x x	x x	x x	16 218 2 156 16 181 4 129	x x x x	x x x x	0074-20210-1 0074-20210-2 0074-20230-1 0074-20230-2	
7/13	x x x	x x x	x x	x x	16 146 13 131 4 64	x x x	x x x	0078-19570-1 0078-19570-2 0078-09020-3	NE corner -do- NE quad
7/18	x x	x x	x x	x x	11 192 3 151	x x	x x	0083-19570-1 0083-19570-2	
7/20	x x x	x x x	x x	x x	2 55 2 76 15 217 2 157	x x x	x x x	0085-09290-3 0085-09310-3 0085-20260-1 0085-20260-2	NW tip Missing SE part
7/24	x x	x x	x x	x x	9 68 24 54 32 169	x x	x x	0089-09060-3 0089-20010-1 0089-20010-2	No western edge Partial frame -do-
7/25	x x x	x x x	x x	x x	2 64 4 72	x x	x x	0090-09230-3 0090-09250-3	SW corner
7/29	x x	x x	x x	x x	2 60	x x	x x	0094-08590-3	

SITE: Wyoming - Powder River Basin

## HCM DATA PRODUCTS

DATE: July 1978

Date	Data		Product		% Site Covered								% Site Cloud Covered			DN Range		Ratings		Pairs?	Scene ID	Remarks				
	Day Vis	Day Ir	Nite Ir	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10	30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
7/30			x	x	x	x						x						6	56				x		0095-09170-3	Good data, possibly meteorologically anomalous SE tip -do- Missing SE tip -do-
	x			x	x		x									x		12	209	x					0095-20110-1	
		x		x	x		x									x		4	145	x					0095-20110-2	
	x			x	x						x							12	172			x			0095-20130-1	
		x		x	x						x							3	136			x			0095-20130-2	
7/31			x	x	x													2	56	x					0096-09340-3	
																x		10	210	x					0096-20300-1	
																		2	145	x					0096-20300-2	



SITE: Wyoming - Powder River Basin

HCMH DATA PRODUCTS

DATE: August 1978

Date	Data		Product		% Site Covered					DN Range		Ratings		Pairs?		Scene ID	Remarks							
	Day Vis	Day Ir	Nite IR	Trans	CCT	<10	10	25	50	75	100	<10	10-30	30-60	60-90			90-100	Unsat	Mar	Sat	Yes	No	AA Number
8/3			x	x	x	x	x	x	x	x	x	x	x	x	x	x	0099-08510-3				x	x	0099-08530-3	
8/4			x	x	x	x	x	x	x	x	x	x	x	x	x	x	0100-09090-3				x	x	0100-09110-3	Very clear
8/5			x	x	x	x	x	x	x	x	x	x	x	x	x	x	0101-09270-3				x	x	0101-09280-3	Very clear SW tip, clear over Salt Lake
8/6	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	0102-20420-2				x	x	0102-20400-1	
8/10		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0106-09210-3				x	x	0106-09200-3	SW tip
8/15			x	x	x	x	x	x	x	x	x	x	x	x	x	x	0111-09120-3				x	x	0111-09140-3	No. half, clear only near Sheridan
8/16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0112-20260-1				x	x	0112-20260-2	SW tip only
																	0112-09300-3				x	x	0102-20420-1	So. boundary -do-

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SITE: Wyoming - Powder River Basin

## HCMH DATA PRODUCTS

DATE: August 1978

Date	Data		Product		Z Site Covered										DN Range		Ratings		Pairs?		Scene ID	Remarks			
	Day Vis	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	>100	10-30	30-60	60-90	Low	High	Unsat	Mar	Sat			Yes	No	AA Number
8/19		x	x	x			x						x				4	61	x			x		0115-08470-3	Barely gets the E edge
		x	x	x			x						x				2	58	x			x		0115-08480-3	Only gets the SE tip
8/20		x	x	x					x								5	64		x		x		0116-09050-3	Good image
8/21	x		x	x				x					x				3	66		x				0117-09230-3	Good data
	x	x	x	x				x					x				11	187	x					0117-20180-1	
	x	x	x	x				x					x				2	161	x					0117-20180-2	
	x	x	x	x				x					x				9	159		x				0117-20200-1	Good data
		x	x	x				x					x				5	142		x				0117-20200-2	-do-
8/22	x		x	x				x									13	204	x					0118-20360-1	
	x		x	x				x					x				2	139	x					0118-20360-2	
	x		x	x				x					x				15	203	x					0118-20380-1	
		x	x	x				x					x				2	120	x					0118-20380-2	
8/25	x		x	x				x					x				2	224	x			x		0121-19550-1	Data not cloud covered, had noise problems
			x	x				x									7	189	x					0121-19550-2	-do-
		x	x	x				x					x				2	74	x					0121-08590-3	
	x		x	x									x				16	187	x					0121-19540-1	
		x	x	x				x					x				2	135	x					0121-19540-2	
8/31	x		x	x					x								2	138	x			x		0127-20060-2	
	x		x	x					x								15	191	x			x		0127-20060-1	
	x		x	x									x				16	170	x			x		0127-20070-1	No. border
		x	x	x									x				2	125	x			x		0127-20070-2	-do-

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

HCM DATA PRODUCTS

Site: Wyoming - Powder River Basin

DATE: August 1978

Date	Data		Product	% Site Covered					% Site Cloud Covered				DN Range		Ratings		Pairing	Scene ID	Remarks	
	Day Vis	Nite IR		<10	10	25	50	75	100	<10	10	30	60	90	Low	High				Unsat
8/19																				

# HCMM DATA PRODUCTS

DATE: September 1978

SITE: Wyoming - Powder River Basin

Date	Data		Product		% Site Covered					% Site Cloud Covered				DN Range		Ratings		Pairs?		Scene ID		Remarks			
	Day	Nice																							
	Vis	IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	30	60	90	10-	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
9/4	x	x	x	x	x	x							x				2	107	x			x		0131-08460-3	
			x	x		x											2	82	x			x		0131-08470-3	
9/5	x	x	x	x	x	x											3	71	x			x		0132-09030-3	No. border
			x	x		x											15	72				x		0132-09050-3	Very clear
	x		x	x		x											26	49	x			x		0132-19590-1	SE area
		x	x	x		x											23	153	x			x		0132-19590-2	-do-
	x		x	x		x											13	152			x		x	0132-20010-1	Large data dropout in northern part of site
		x	x	x		x											2	145			x		x	0132-20010-2	Clouds may be problem in day
9/6	x	x	x	x		x											2	74				x		0133-09220-3	No. half
			x	x		x											3	72				x		0133-09230-3	So. half, missing eastern
9/10		x	x	x		x											12	137	x			x		0137-19530-2	SE quarter
	x		x	x		x											14	168	x			x		0137-19530-1	-do-
9/17		x	x	x		x											2	39			x	x		0144-09270-3	
			x	x		x											2	50	x			x		0144-09290-3	
9/26		x	x	x		x											1	24	x			x		0153-08560-3	NE quarter
		x	x	x		x											1	26	x			x		0153-08580-3	SE quarter
	x		x	x		x											15	77	x			x		0153-19530-1	-do-
		x	x	x		x											1	129	x			x		0153-19530-2	-do-
	x		x	x		x											10	96	x			x		0153-19540-1	NE portion
	x		x	x		x											1	133	x			x		0153-19540-2	-do-

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

Site: Wyoming - Powder River Basin

HCM DATA PRODUCTS

Date: September 1978

Data	Data		Product		% Site Covered					% Site Cloud Covered		DN Range		Ratings		Scene ID	Remarks
	Day	Nite	Vis	IR	BCW	Trans	CCT	<10	10	25	50	75	100	Low	High		
9/7/77	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-09140-3	No. border
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-09160-3	Very good,
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-20100-1	RMS 281
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-20100-2	So. edge
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-20100-1	-do-
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-20100-2	RMS 283
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-20120-1	mislabelled,
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-20120-2	is over ocean
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-20100-1	
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0154-20100-2	

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

SITE: Wyoming - Powder River Basin

## BCRN DATA PRODUCTS

DATE: October 1978

Date	Data		Product	Σ Site Covered								Σ Site Cloud Covered			DN Range		Ratings		Pairs?		Scene ID	Remarks
	Day Vis	Nite IR		<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No		
10/3		x	x	x	x									x	1 26	x			x	0160-09260-3	NW tip	
10/6		x	x	x	x									x	1 45	x			x	0160-09280-3	SW tip	
10/7	x		x												2 40	x			x	0163-08430-3	SE tip	
10/12	x	x	x	x	x										12 51		x		x	0164-19570-1	SE quarter	
10/12			x	x	x										44 118		x		x	0164-19570-2	-do-	
10/13	x	x	x	x	x										8 158	x			x	0169-19510-1		
10/13			x	x	x										2 75	x			x	0169-19510-2		
10/19	x	x	x	x	x										11 89	x			x	0170-20080-1		
10/19			x	x	x										6 97	x			x	0170-20080-2		
10/19			x	x	x										9 114		x		x	0170-20090-1		
10/19			x	x	x										2 80		x		x	0170-20090-2		
10/23	x	x	x	x	x										2 38	x			x	0176-09230-3	NW corner	
10/23			x	x	x										2 53	x			x	0176-09250-3	SW corner	
10/24			x												12 57		x			0180-19540-1	Large data dropout in No. half, missing western part -do-	
10/24	x	x	x	x	x										1 89		x			0180-19540-2		
			x	x	x										2 46		x		x	0181-C9160-3	May be clouds in So. part	
			x	x	x										3 115	x			x	0181-20120-1		
															2 63	x			x	0181-20120-2		

SITE: Wyoming - Powder River Basin

## HCMH DATA PRODUCTS

DATE: October 1978

Date	Data		Product	% Site Covered							DN Range		Ratings		Pairs?		Scene ID	Remarks				
	Day Vis	Day Ir		Nite IR	<10	10	25	50	75	100	<10	30	60	90	Low	High			Unsat	Mar	Sat	Yes
10/28		x		x							x			58	112	x			x		0185-19480-3	NE corner, must be day vis?
		x						x				x		2	29	x			x		0185-08510-3	Strange scene ID
		x									x		x	2	95	x			x		0185-19460-3	Can't locate, must be day IR?
10/29		x							x					2	33	x			x		0186-09080-3	SW tip
		x								x				2	39	x			x		0186-09100-3	
10/30		x										x		2	26	x			x		0187-09260-3	NW tip

SITE: Wyoming - Powder River Basin

## HCM DATA PRODUCTS

DATE: November 1978

Date		Data		Product		% Site Covered					DN Range			Ratings			Pairs?		Scene ID	Remarks					
Day	Vis	Day	Nite	B&W	Trans	CCT	<10	10	25	50	75	100	<10	30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
11/3		x		x	x							x	x				2	37			x	x		0191-09010-3	Image entirely black, may be snow covered
11/14		x		x	x							x	x				2	7			x	x		0202-09350-3	Only water visible, rest of image black
	x			x				x					x				15	119				x		0202-20000-1	So. border
	x			x				x					x				3	33				x		0202-20000-2	-do-
				x									x				14	92			x	x		0202-20020-1	May be snow covered?
	x			x								x	x				14	92				x		0202-20020-1	Snow
	x			x								x					3	25				x		0202-20020-2	
	x			x								x					15	119				x		0202-20000-1	
				x									x				3	32				x		0202-20000-2	
11/15	x			x	x								x				8	94				x		0203-20200-1	NW portion, looks like snow
				x									x				2	27				x		0203-20200-2	-do-
				x									x				3	8				x		0203-09230-3	
				x									x				3	23				x		0203-09250-3	
11/23		x		x	x								x				2	10				x		0211-08340-3	NE tip, very cold?
				x									x				2	15				x		0211-08360-3	SE tip, very cold?
11/24		x		x	x								x				2	10			x	x		0212-08530-3	Very cold?
				x									x				2	10				x		0212-08550-3	-do-
11/25		x		x	x								x				2	14				x		0213-09110-3	Very cold?
11/29	x			x	x								x				22	95				x	x	0217-19430-1	
				x	x								x				5	44				x	x	0217-19430-2	

REPRODUCTION OF THE ORIGINAL PHOTO IS POOR



HCMM DATA PRODUCTS

SITE: Wyoming - Powder River Basin

DATE: April 1979

Date	Data		Product		% Site Covered					DN Range		Ratings		Pairs?		Scene ID		Remarks
	Day	Nite	Vis	IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	
4/1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Scene temp. about 260°K
																		Av. scene temp. about 260°K
4/2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
4/17	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SITE: Arizona - Cabeza Prieta

## NCM DATA PRODUCTS

DATE: May - August 1978

Date	Data		Product		% Site Covered					DN Range		Ratings		Plays?		Scene ID	Remarks
	Day	Nite	B&W	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90		
5/30	x		x	x	x						x			x		0034-21130-1	Received day IR CCT; data too garbled to use. NASA says data not recoverable. RMS 280.
6/21	x		x	x				x				x		x		0056-21220-1	
8/2	x	x	x	x							x	x	7 208	x		0098-21030-1	
			x	x							x	x	2 136	x		0098-21030-2	
8/5		x	x	x	x		x				x		3 89	x		0101-09300-3	
		x	x	x									2 74			0101-09320-3	
8/6	x	x	x	x			x						13 202	x		0102-20380-1	
			x	x			x						5 178	x		0102-20380-2	
8/7	x		x	x	x			x					8 156	x		0103-20550-1	RMS 282. Lower 25% of site -do-
	x		x	x	x			x					1 155	x		0103-20550-2	RMS 282. Upper 75% of site -do-
			x	x					x				24 183	x		0103-20570-1	
		x	x	x	x				x				1 175	x		0103-20570-2	
8/8	x	x	x	x				x					5 172	x		0104-21140-1	
			x	x				x					9 182	x		0104-21140-2	
8/10		x	x	x	x			x					2 82	x		0106-09230-3	
8/16		x	x	x									28 92	x		0112-09340-3	Good image

REPRODUCTION QUALITY OF THE ORIGINAL IS POOR

SITE: Arizona - Cabeza Prieta

## HCMV DATA PRODUCTS

DATE: May - August 1978

DATE: May - August 1978

Date	Data		Product		% Site Covered						DN Range		Ratings		Pair??		Scene ID	Remarks								
	Day Vis	Day Ir	Day Nite	IR	BSW	Trans	CCT	<10	10	25	50	75	100	<10	10-30	60	90	Low	High	Unsat	Mar	Sat	Yes	No	AA Number	
8/17	x		x		x	x	x			x						x		14	194	x			x		0113-20420-1 0113-20420-2 0113-09520-3	Eastern half -do- Ground track must have been off to get this. It isn't Aug. 17!
8/18	x		x		x	x				x				x				7	212		x		x		0014-20590-1 0014-20590-2	
8/19	x		x		x	x				x				x				5	141		x		x		0115-21170-1 0115-21170-2	
8/21			x		x	x				x						x		2	84	x			x		0117-09260-3	
8/22			x		x	x								x				31	89				x		0118-09450-3 0119-20520-2 0119-20520-1	Good data Image bright Good data
8/24	x		x		x	x								x				4	97		x		x		0120-21100-1 0120-21100-2	
8/28	x		x		x	x								x				8	180				x		0124-20460-1 0124-20460-2	

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



SITE: Arizona - Cabeza Prieta

## HCM DATA PRODUCTS

DATE: March/April 1979

Date	Data			Product		% Site Covered							DN Range		Ratings		Pairs?		Scene ID	Remarks						
	Day Vis	Day Ir	Nite IR	B&W	Trans	CCT	<10	10	25	50	75	100	<10	30	60	90	10-	Low			High	Unsat	Mar	Sat	Yes	No
3/31	x			x	x		x						x					4	129	x			x		0339-20470-1	SW tip, clear over Salton Sea
4/2		x		x								x	x					27	129	x			x		0339-20470-2	--do-
4/3			x	x	x							x	x					2	59		x		x		0341-08570-3	
4/4	x			x	x							x	x					2	60		x		x		0342-09150-3	Clear over site
4/15	x	x		x	x							x	x	x				8	79		x		x		0343-20230-1	Excellent
												x	x	x				28	142		x		x		0343-20230-2	Excellent
4/15	x			x	x							x	x	x				6	113		x		x		0354-20270-1	
												x	x	x				6	164		x		x		0354-20270-2	